

Storm Water Utility Storm Water Master Plan



Public Meeting

Thursday
June 19, 2014

6:00 p.m.

Presented by: Shawn O'Leary, Director of Public Works
Scott Sturtz, City Engineer



Points of Clarification Norman Storm Water Utility

- The City is very interested in adoption of a Storm Water Utility in Norman.
- The City has been considering a Storm Water Utility in Norman since 2006.
- The City has not scheduled an election for the Storm Water Utility.
- A final rate structure or method of allocation has not been determined by City Council.
- The purpose of this evening's meeting is to gather input and feedback on the concept and methodology of a Storm Water Utility.

AGENDA

What is a Storm Water Utility?

Why does Norman need a Storm Water Utility?

What is the current Storm Water Utility concept under consideration by City Council?

How will a Storm Water Utility benefit Norman's residents and businesses?



Storm Water Utility

Key component of City Storm Water Master Plan

Jan -
Dec 2006

- Storm Water Master Plan Scoping (2 Citizen Committees)

Jan 2007
-Nov
2009

- SWMP Development

Nov 10,
2009

- Council Accepts SWMP, Adopts Action Plan

Jan 2010
- June
2011

- Public meetings and development of Stream Planning Corridor (SPC) and Water Quality Protection Zone (WQPZ) ordinance

June 28,
2011

- City Council adopts SWMP & WQPZ (SPC) ordinance

July
2011 to
present

- Other SWMP Action Plan activities



Storm Water Utility

Key component of City Storm Water Master Plan

Team Meetings and Coordination



**Bi-weekly
conference
calls with
City staff**

**6 Public
Forum
Meetings**
September,
2007 through
May, 2009

**11 SWMP
Task Force
Meetings**
September,
2007 through
January, 2010

**Individual
Council
Ward
Meetings** July
31 and August
1, 2008

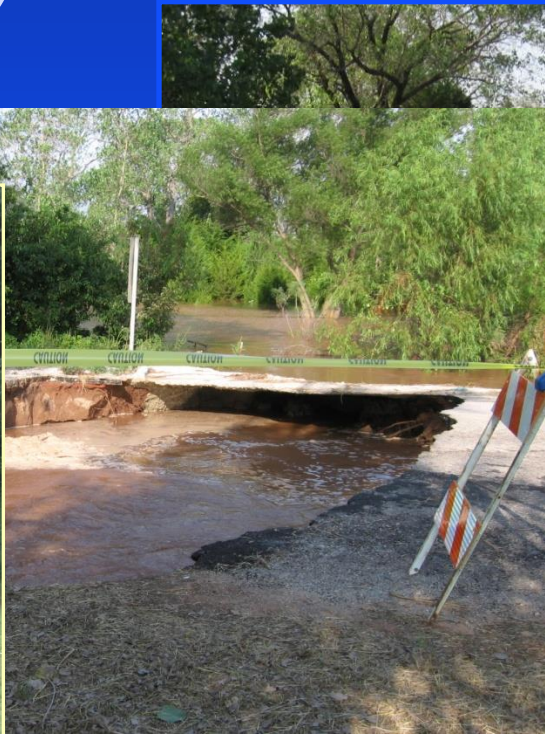
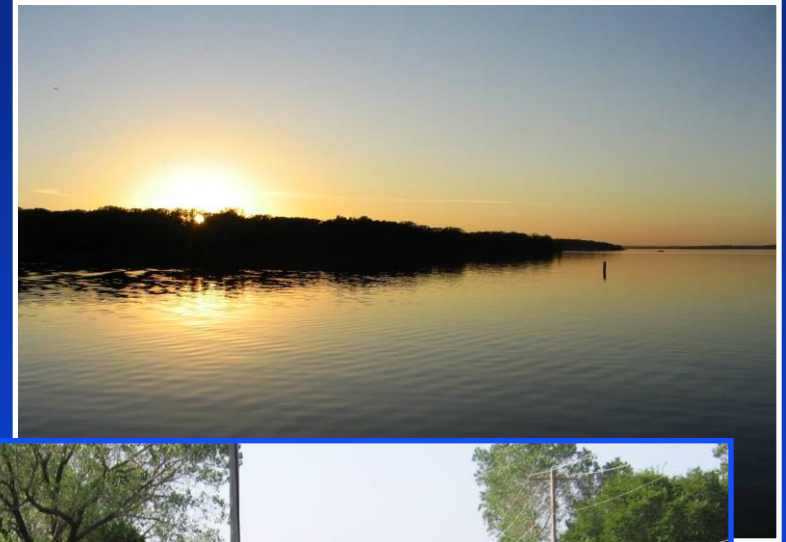
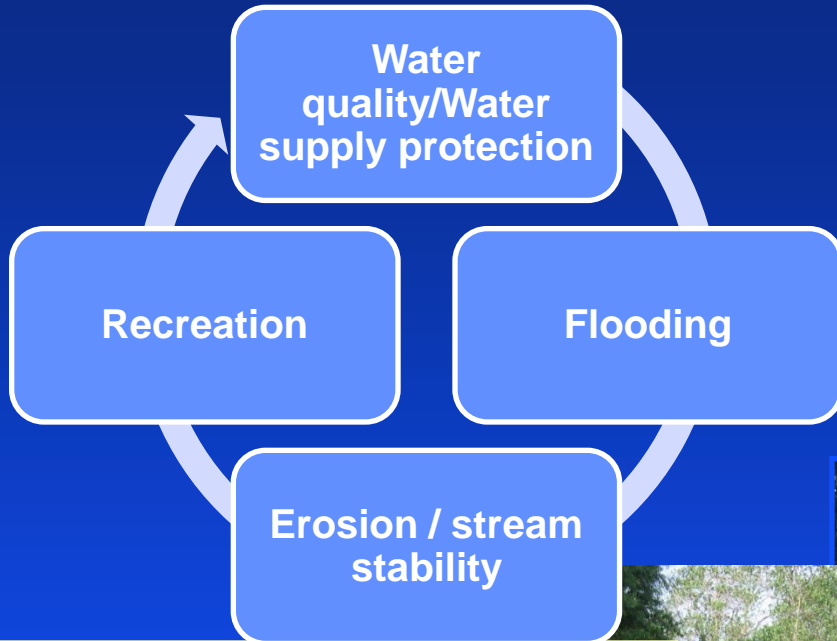
**Council
Study
Sessions**
August 12,
2008 and
April 7, 2009

**Multiple
Greenbelt
Commission
Meetings**



Storm Water Utility

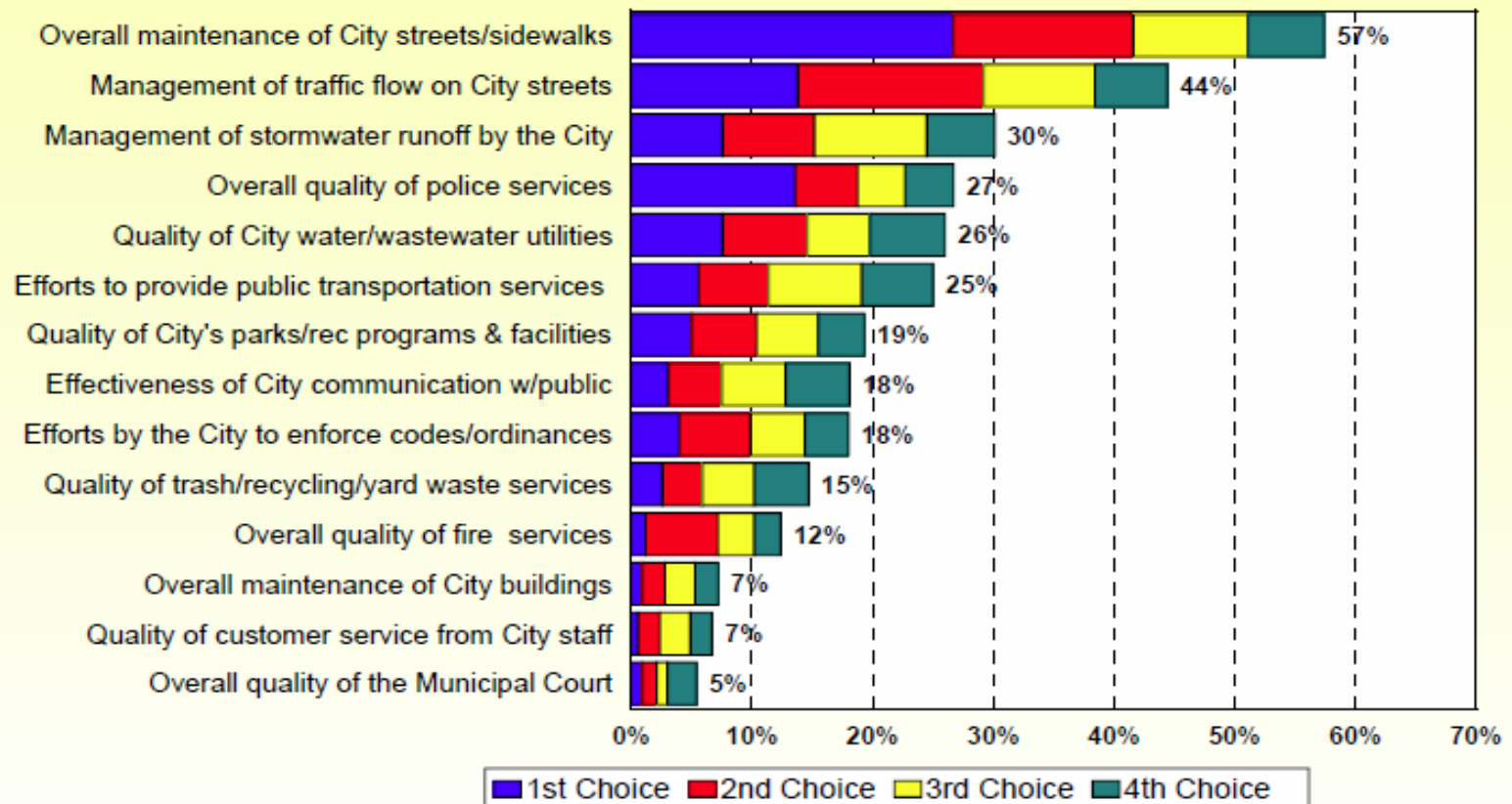
Key component of City Storm Water Master Plan



2009 City of Norman Community Survey – Final Report

Q2. City Services That Are The Most Important For The City of Norman to Emphasize Over the Next Two Years

by percentage of respondents who selected the item as one of their top four choices

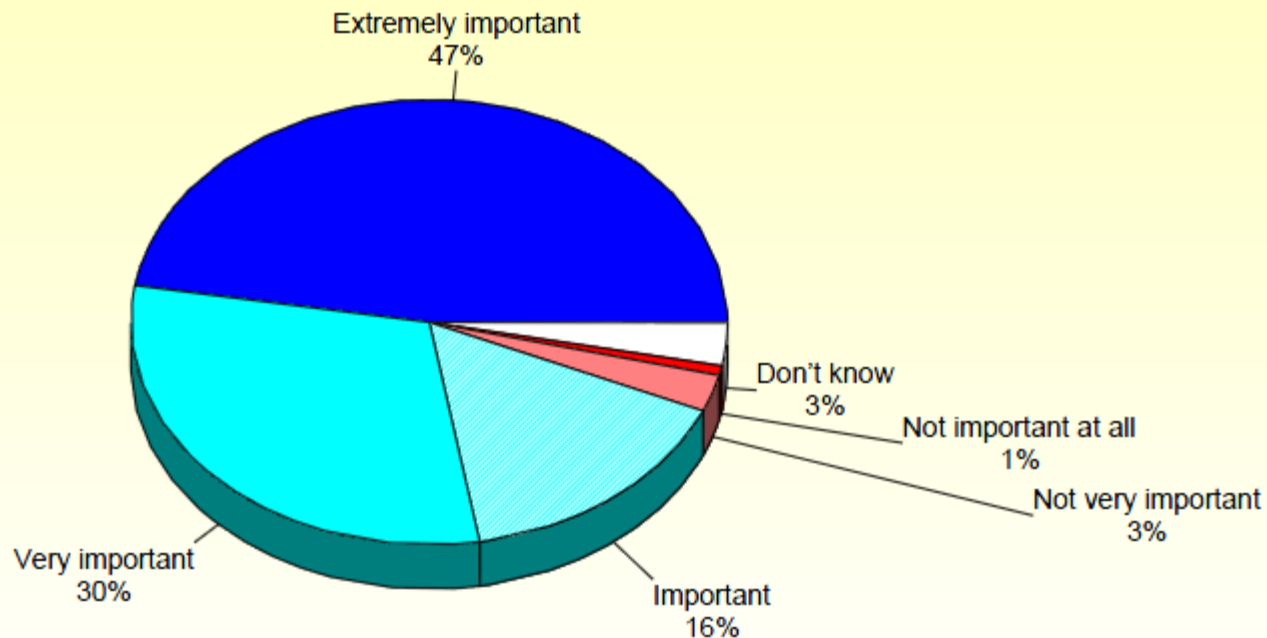


Source: ETC Institute (2009)

2009 City of Norman Community Survey – Final Report

Q29. How important do you think it is for the City of Norman to fund stormwater improvements that will help prevent flooding and protect the quality of water in lakes and streams, such as Lake Thunderbird, which is the City's primary source of drinking water?

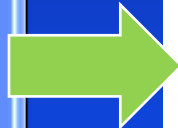
by percentage of respondents



Source: ETC Institute (2009)

What is a Storm Water Utility?

A Storm Water Utility is to storm water what a sewer utility is to sewage, and a water utility is to drinking water.



CITY OF NORMAN
UTILITY DIVISION
P.O. BOX 5599 • 201 W. GRAY BLDG. C
NORMAN, OKLAHOMA 73070-5599

PLEASE RETURN THIS PORTION WITH PAYMENT

SERVICE ADDRESS
413 ANY STREET

ACCOUNT NUMBER	CYCLE	BILL DATE	DUE DATE
123456-12345	06-51	5/14/14	6/10/14

Total Current Charges 57.57
Previous Balance .00
Total Amount Due 57.57

Pay 62.57 After 6/10/14

JOHN DOE
413 ANY STREET
NORMAN OK 73072

00033122000038012000000123456

SERVICE ADDRESS 413 ANY STREET

ACCOUNT NUMBER	CYCLE	BILL DATE	DUE DATE
123456-12345	06-51	5/14/14	6/10/14

Rate Class : SINGLE FAMILY

Service	Period	Days	Meter	Number	Mult	Comp	Current	Previous	Usage
WA	2/15/14	5/02/14	76	0123456	1.000	100G	1234	1234	12
TC	SINGLE FAMILY						3.00		3.00
SW	STORMWATER UTILITY FEE						5.00		5.00
CS	CAPT IMPRVMT CHG-SE						.50		.50
CW	CAPT IMPRVMT CHG-WA						1.50		1.50
OS	OSWA						.20		.20
SE	BASE						5.00		
SE	CONSUMPTION						19.37		
TOTAL SEWER									24.37
SM	SEWER MAINT						5.00		5.00
TR	SINGLE FAMILY						14.00		14.00
WA	WATER						4.00		4.00

Total Current Charges 57.57
Previous Balance .00
Total amount Due 57.57

Pay 62.57 After 6/4/14

Online Bill Pay Password: 0000123456 Average Cost per day 2.06

City of Norman, P.O. Box 5599, 201 W. Gray Bldg C, Norman, OK 73069. For payments call (405) 366-5320. Service, bill inquiries, or assistance call (405) 217-7739. Office hours: 8 am to 5 pm Monday thru Friday. After hours emergency: call (405) 321-1600. Save Energy—Pay by Mail. Payments received after due date incur a 10% penalty charge. Failure to receive the bill does not avoid or waive penalty charge.

Thank You for paying promptly

What is a Storm Water Utility?

It is a
"stand-
alone"
service unit
(Enterprise)

A Storm Water Utility is
responsible for funding



the operation
and
maintenance
of storm water
facilities

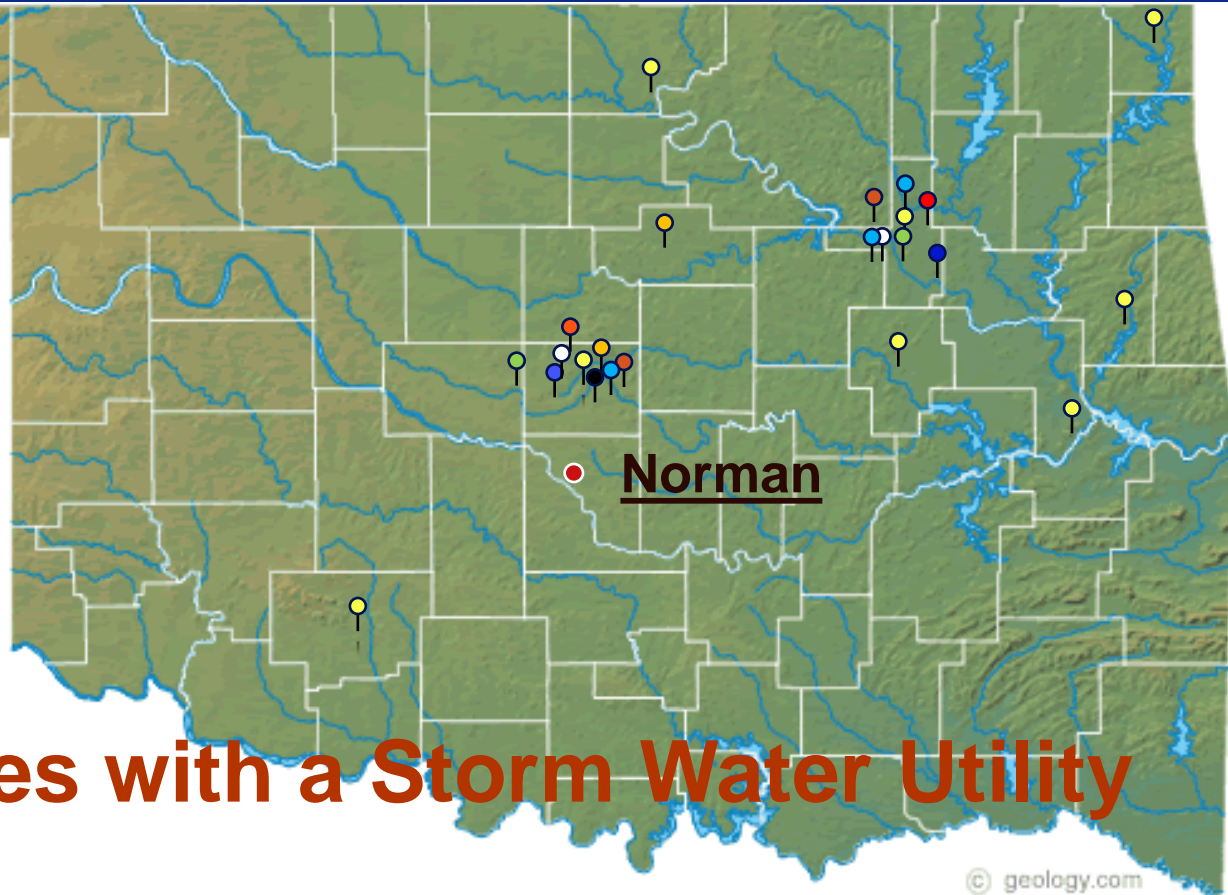


storm water
system
planning, and
management

A Storm
Water
Utility
generates
its revenue

Norman is the only large city in Oklahoma without a storm water utility

Cities Include
Oklahoma City
Edmond
Midwest City
Tulsa
Broken Arrow
Lawton
Spencer
Miami
Stillwater

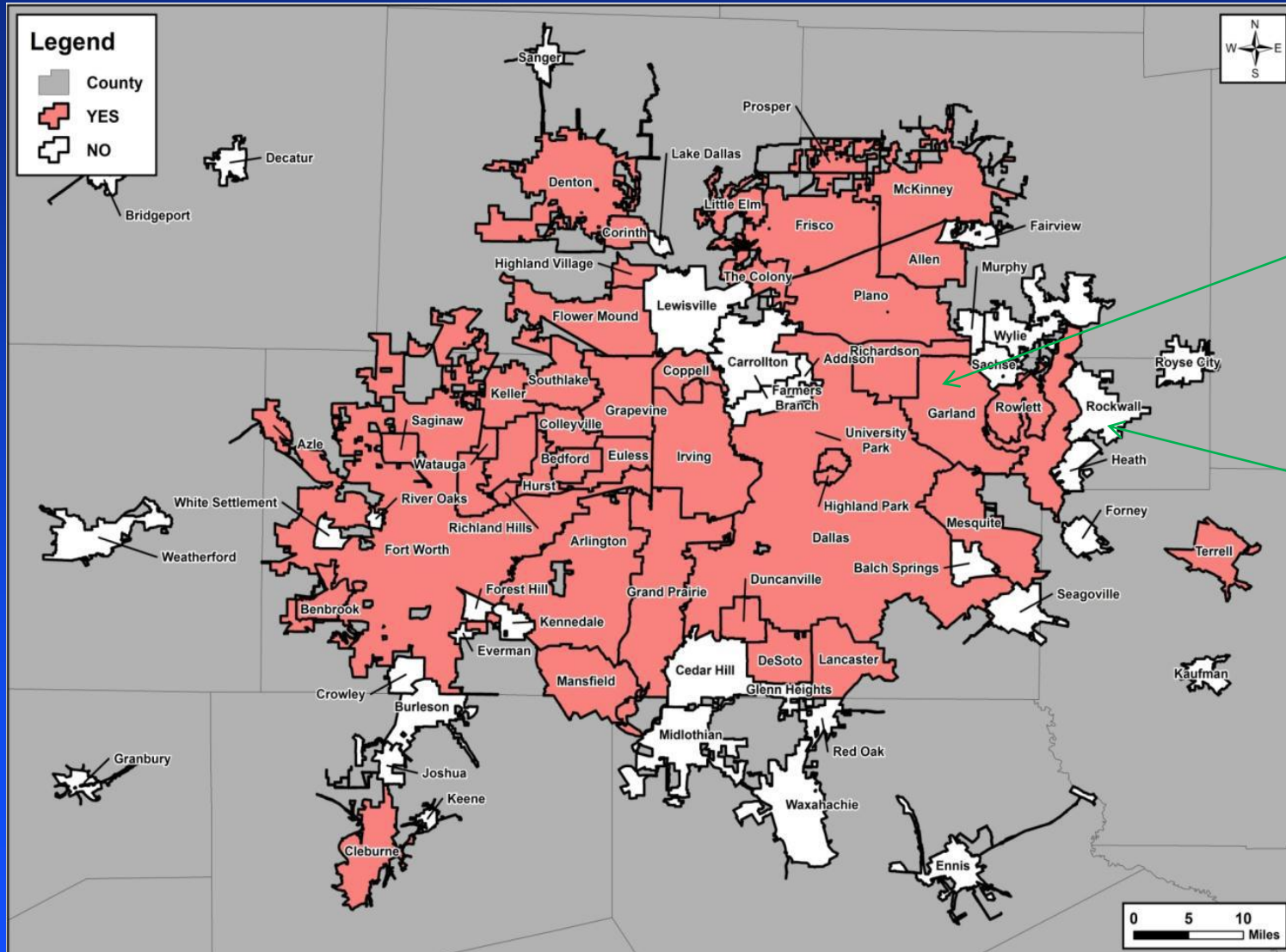


Oklahoma Cities with a Storm Water Utility

- Range of fees - \$0.75 to \$19.00 per month
- 24 Utilities in Oklahoma

Other Storm Water Utilities in Region

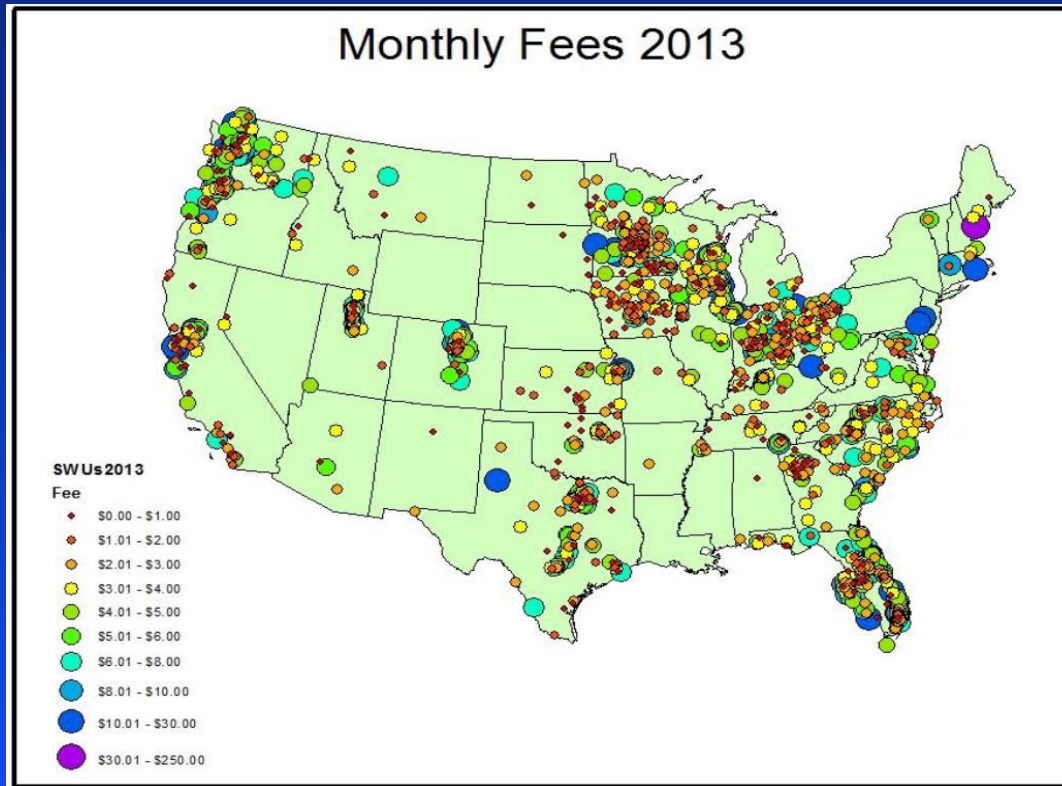
Dallas-Ft. Worth Metro SWU



**45 Cities
have a SWU**

**34 Cities do
not have a
SWU**

Other Storm Water Utilities in U.S.A.



- 1417 total utilities surveyed
- 1328 are municipal
- 89 are county or other
- 39 states and DC have SW utilities

Western Kentucky University
Stormwater Utility Survey
2013



Data From the Western Kentucky University study
conducted in 2013



Other Storm Water Utilities in University Communities

- Regional University Cities with a Storm Water Utility
- Range for fees - \$1 - \$14 per month

Cities Include

Austin, TX
Boulder, CO
Columbia, MO
Denton, TX
Lawrence, KS
Manhattan, KS
Waco, TX
Stillwater, OK
Oklahoma City, OK
Edmond, OK
Iowa City, IA
Wichita, KS
Fort Collins, CO



Why Does Norman Need a Storm Water Utility?

Improved water quality/water supply

Less flooding

Reduce erosion/improve stream stability

Unfunded Federal/State mandates

Neighborhood enhanced maintenance



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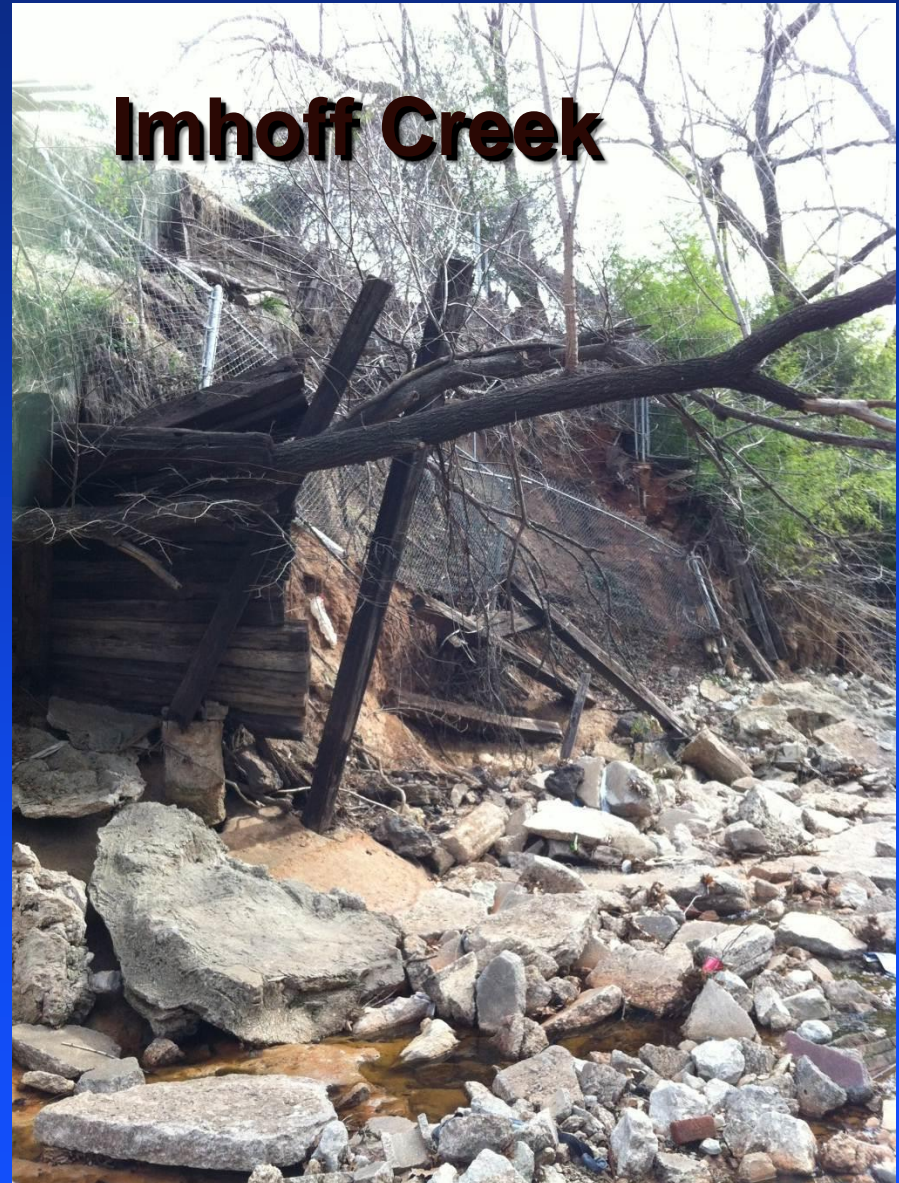
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Reduce erosion/improve stream stability

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Neighborhood enhanced maintenance



Why Does Norman Need a Storm Water Utility?

Improved water quality/water supply

Less flooding

Reduce erosion/improve stream stability

Unfunded Federal/State mandates

Neighborhood enhanced maintenance

Unfunded mandates - requirements from rules or permits that must be met for compliance

Current unfunded mandates

- **Total Maximum Daily Load**
- **Street Sweeping**
- **Illicit Discharge Detection**
- **Enhanced Construction Erosion Control Inspections**
- **Public Education**
- **Good Housekeeping**
- **Dam Safety**

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Unfunded Federal/State mandates

Neighborhood enhanced maintenance

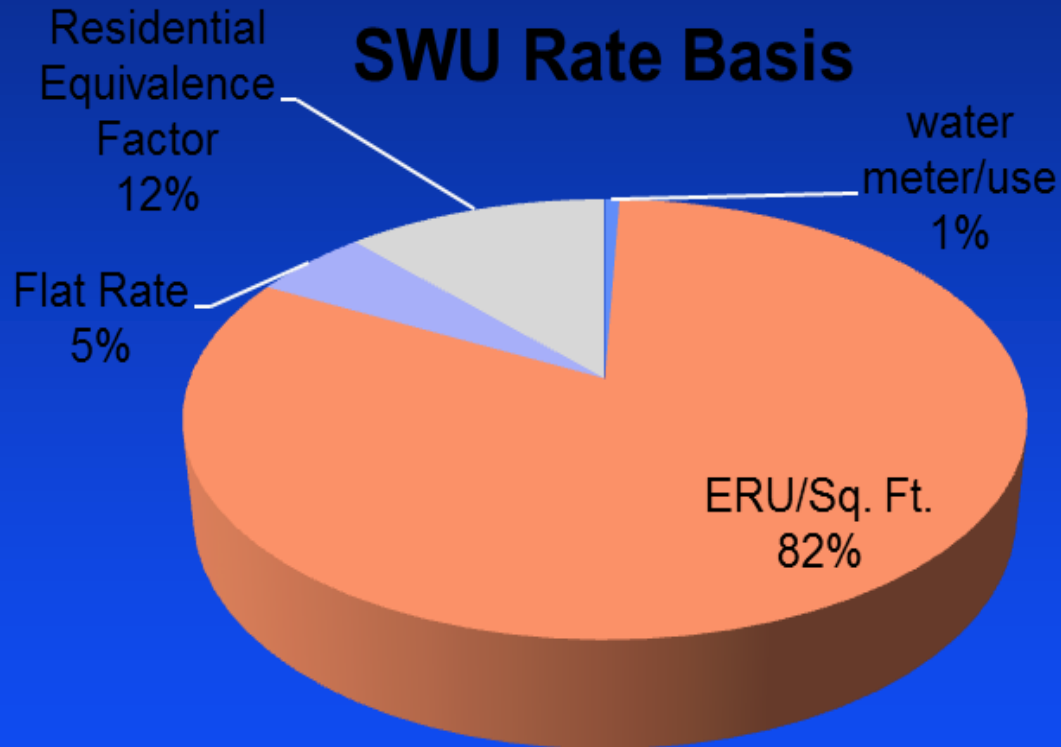


What is the Current Storm Water Utility Concept Under Consideration by City Council?

Several options have been investigated

Rate Structure	Pro	Con
Equivalent Residential Unit (ERU)	<ul style="list-style-type: none"> • More Equitable • Recommended in the SWMP • Defensible • 82% of utilities nationally are billed in this manner 	<ul style="list-style-type: none"> • Some administrative burden • Slightly more complicated
Flat Rate	<ul style="list-style-type: none"> • Simplest method of billing • Less administrative burden • Often used for <u>residential</u> billing in Oklahoma 	<ul style="list-style-type: none"> • Only 5% of utilities nationally are billed in this manner • Least equitable
Water Meter Size	<ul style="list-style-type: none"> • Easy billing method • Commonly used in Oklahoma City Metro 	<ul style="list-style-type: none"> • Less equitable • Less than 1% of utilities nationally are billed in this manner
Residential Equivalent Factor	<ul style="list-style-type: none"> • Equitable • Based on runoff • Defensible • 12% of utilities nationally are billed in this manner 	<ul style="list-style-type: none"> • Some administrative burden • Slightly more complicated

Other Storm Water Utilities in U.S.A.



Data From the Western Kentucky University study conducted in 2013



Residential Utility Rates

ERU = 1

**The Average Residence Rate of
\$6.00 for a 2900 sq.ft. house with
700 sq.ft. of patios, driveways
and other hard surfaces**

Residential Utility Rates

Per Month
Based on Hard Surface Area



\$3.50 - Up to 2000 sq.ft.



\$10.25 - From 5500 to 6500 sq.ft.



\$4.25 - From 2000 to 3000 sq.ft.



\$13.00 - From 6500 to 8000 sq.ft.



\$5.75 - From 3000 to 4000 sq.ft.

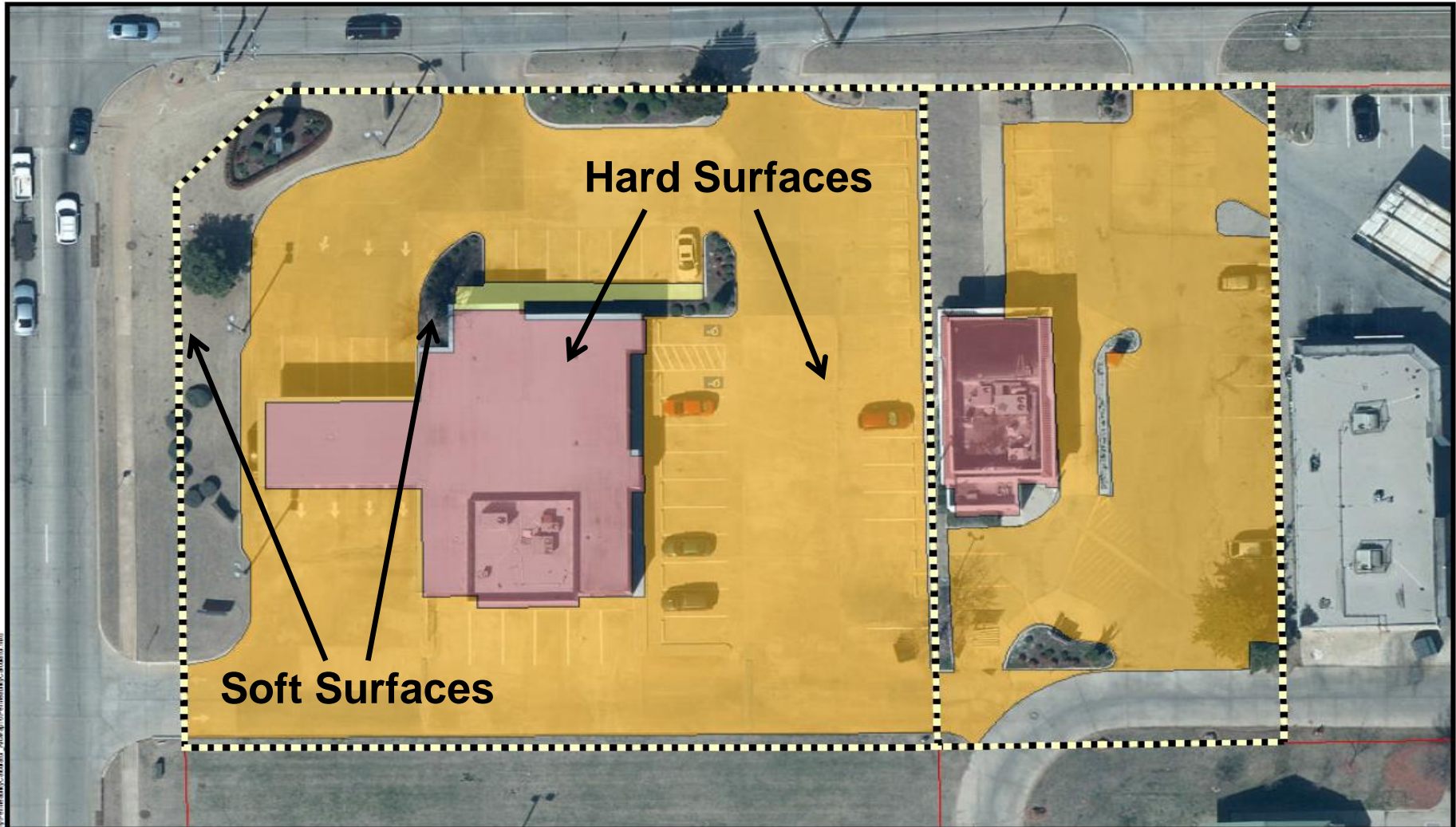


\$15.00 - Larger than 8000 sq.ft.



\$8.00 - From 4000 to 5500 sq.ft.

Typical Non-Residential Property in Norman



Map Produced by the City of Norman
Geographic Information System.

The City of Norman assumes no
responsibility for errors or omissions
in the information presented.

**Soft Surfaces do
not count in this
total**

Zoning: C-2

Roof: 8880SF = 13%
Parking and other: 45327SF = 66%
TOTAL: 79% Hard Surfaces

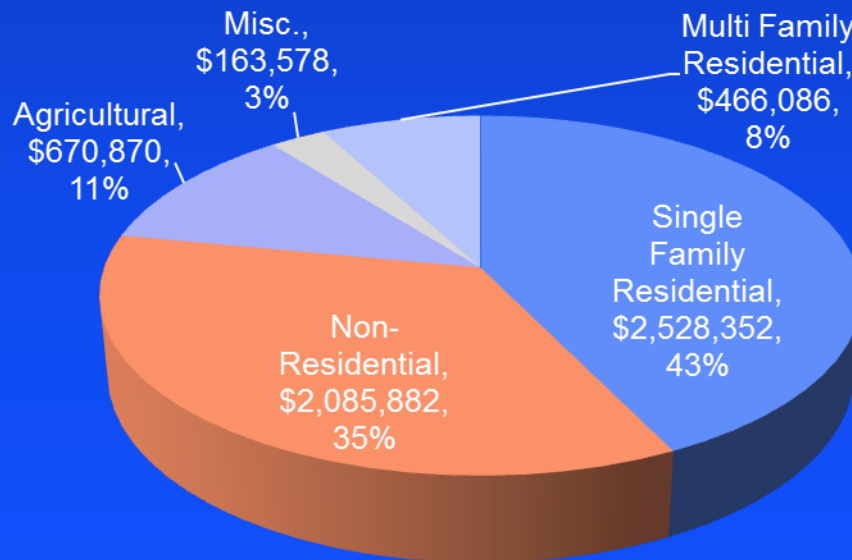


1" = 40'

May 16, 2014

Total Projected Revenue From Norman Storm Water Utility

PROPERTY (Per Parcel)	YEARLY REVENUE	AVERAGE MONTHLY FEE
Single Family Residential	\$2,528,352	\$6.70
Non-Residential	\$2,085,882	\$57.44
Agricultural w/Buildings	\$670,870	\$20.22
Miscellaneous	\$163,578	\$22.24
Multi Family Residential	\$466,086	\$44.49
TOTAL	\$5,914,767	

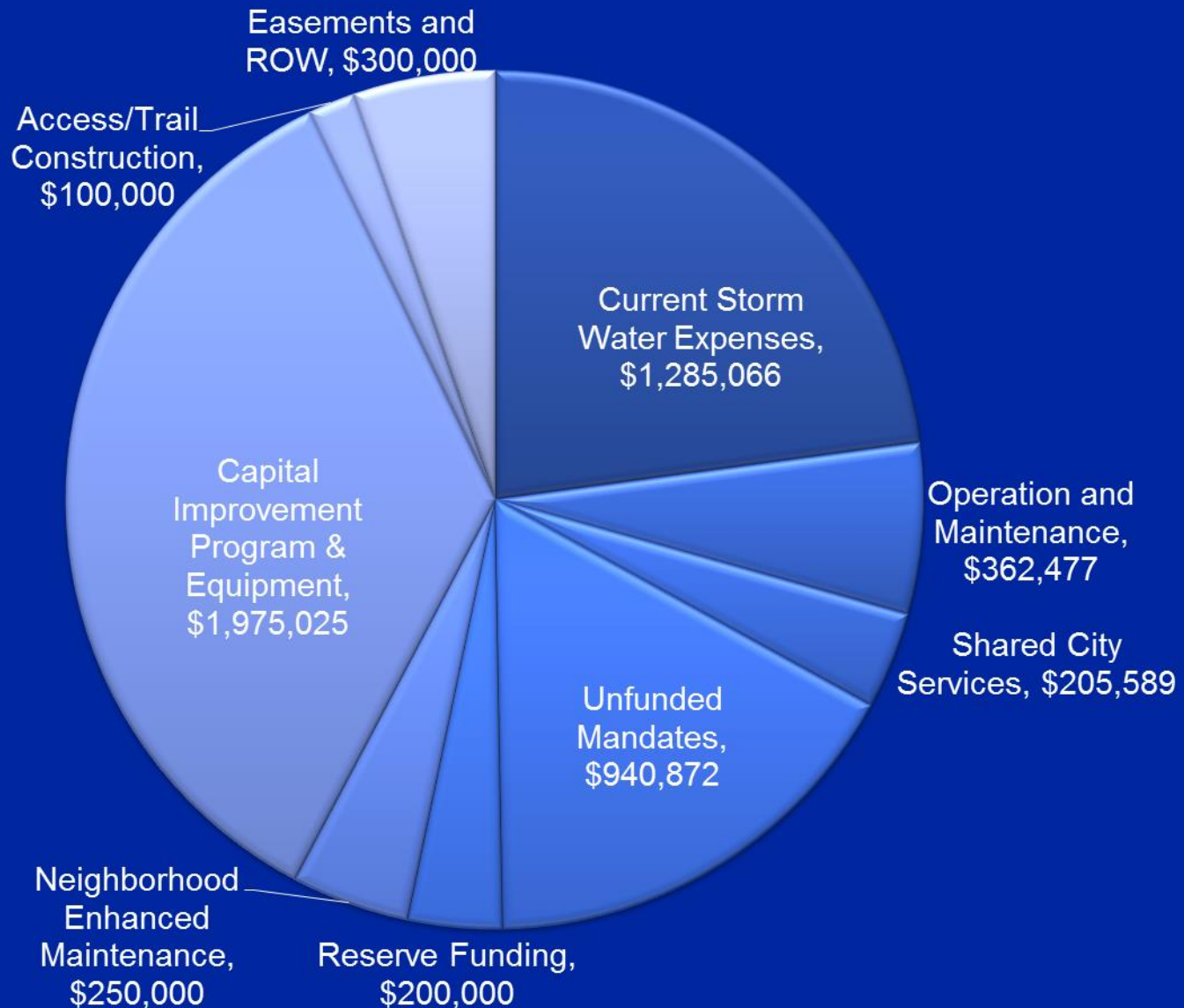


Proposed Storm Water Utility Budget 2016-2020

Category	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Revenue	\$5,620,000	\$5,620,000	\$5,620,000	\$5,620,000	\$5,620,000
Expenses	\$4,450,000	\$4,330,000	\$4,170,000	\$3,910,000	\$3,860,000
Unbudgeted funds	\$1,170,000	\$1,290,000	\$1,450,000	\$1,710,000	\$1,760,000

- Revenue is total revenue from single family residential tiered structure and ERU based non-single family residential less 5%
- Projections do not account for inflation or additional revenue from growth
- Unbudgeted funds can be utilized to offset a portion of current storm water expenditures in the General Fund

Proposed City of Norman FYE 2017 Budget for Storm Water Utility



Other Considerations

Incentives

- **One time payment for the installation of a storm water device**
- **Could apply to properties with**
 - **Rain barrels**
 - **Detention ponds**
 - **Rain gardens**
 - **Other Low Impact Development (LID) practices**
- **Positive reinforcement for providing alternatives in design and storm water management**
- **Funds would have to be set aside for payment of the incentives**
- **Application is yet to be determined**

Other Considerations

Credits

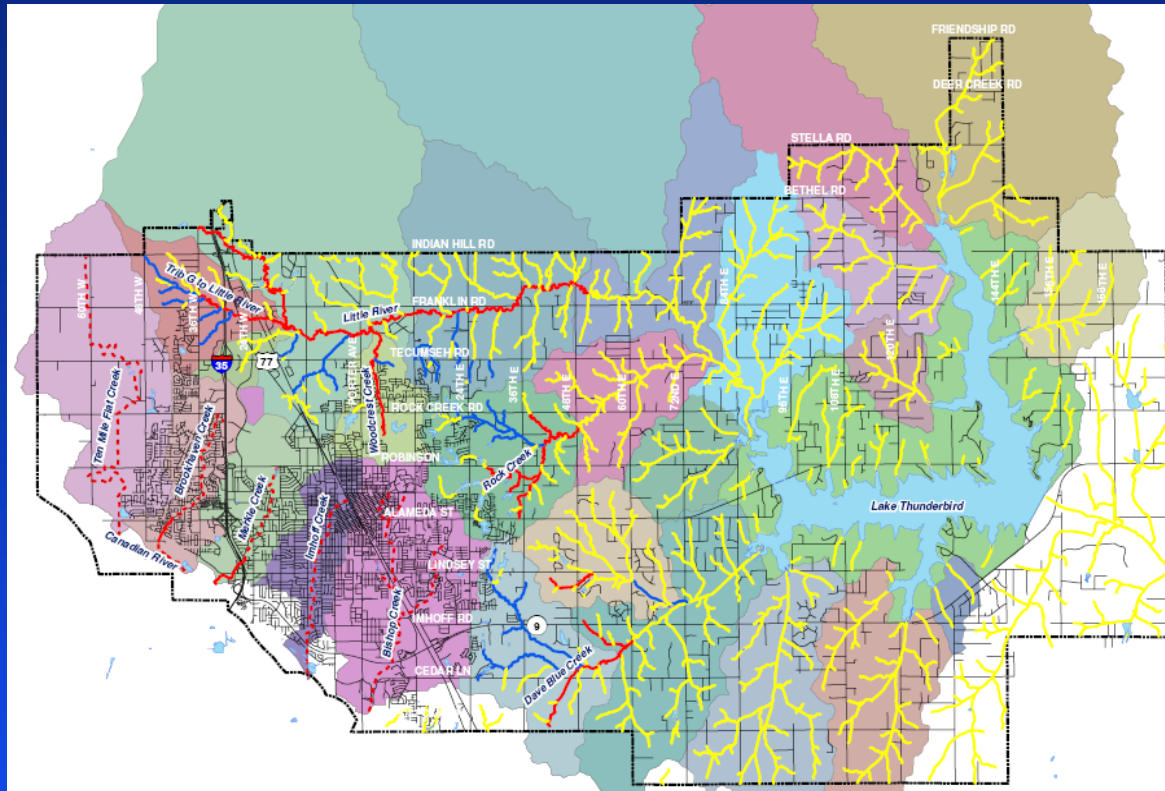
- **A reduction in the monthly bill applied for a storm water device**
- **Could apply to properties with**
 - **Rain barrels**
 - **Detention ponds**
 - **Rain gardens**
 - **Other Low Impact Development (LID) practices**
 - **Other Storm Water Phase II permittees**
- **Positive reinforcement for providing alternatives in design and storm water management**
- **Decreases the revenue available requiring higher rates or cuts in programs**
- **Requires inspections to determine if the storm water device is still functioning and installed**

Other Considerations Exemptions

- **Should some properties be exempted from participation in the SWU?**
- **Might apply to**
 - **Street right of way**
 - **Railroad right of way**
 - **Other Storm Water Phase II permittees**
 - **Certain other types of property owners**
- **Storm Water Phase II permittees already perform many of the unfunded mandates on their own behalf**

Other Considerations

Rate Calculation Options



- **Rate based on base rate for cost of the utility and unfunded mandates plus additional rate for O&M and CIP based on watershed**
 - Base fee same through out Norman
 - O&M fee in Imhoff Creek greater than Dave Blue Creek
 - CIP fee in Bishop Creek greater than Brookhaven Creek
- **Calculate fees based on gallons of runoff per set storm**

How will a Storm Water Utility benefit Norman's residents and businesses?

This plan incorporates numerous programs to create a positive impact



Required Storm Water Utility Programs

Storm Water Pipeline Condition Assessment (138 Miles)

- Pipes as old as 90 years old
- Sizes from 12 inches to 10 foot by 10 foot boxes



- Will help identify illicit discharges to the storm water pipeline system
- Will indicate areas in need of repairs

Required Storm Water Utility Programs



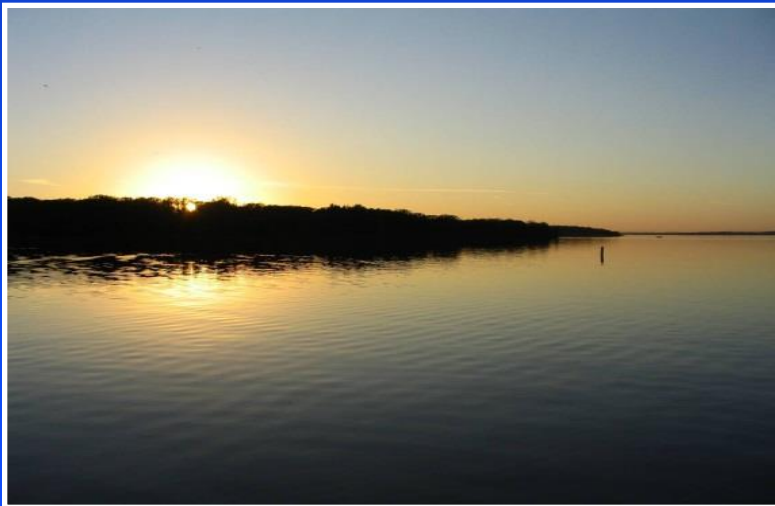
Additional Street Sweeping

- Part of the City of Norman storm water permit (unfunded mandate)
- Removes contaminants from the street surface reducing the pollution transported to streams and ultimately Lake Thunderbird.
- Adds 4 new sweepers and 4 operators for a total of 6 street sweepers to serve Norman

Required Storm Water Utility Programs

Lake Thunderbird Total Maximum Daily Load (TMDL)

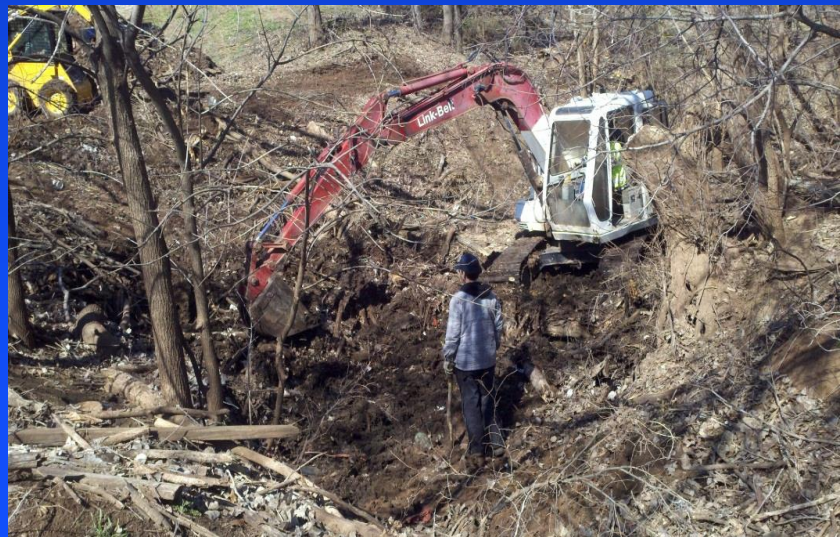
- Published by the ODEQ on November 13, 2013
- Compliance Plan implemented within 2 years (November 2015)
- TMDL is for total nitrogen, total phosphorus and total suspended solids
- DEQ approval requirements are unknown
- Oklahoma City and Moore must also comply with the TMDL



Storm Water Utility Programs

Additional Stream Maintenance (328 Miles)

- Many of the stream corridors need additional maintenance/repairs
- Perform a stream corridor “blitz” each year; For instance, Imhoff Creek in year 1, Bishop Creek in year 2, etc.



Storm Water Utility Programs

Neighborhood Enhanced Maintenance

- A program to assist property owners and home owners associations with repairs to drainage facilities, detention basins (191 located within Norman), dams and structures.



Storm Water Utility Programs



Capital Projects

- Additional capital projects from the Storm Water Master Plan
 - SWMP projected \$82.5 million in 59 projects
 - Current 2012 Bond Projects (West Main St. Bridge and Lindsey Street) complete \$17.5 million in bond projects
 - Remaining capital projects \$65 million

Storm Water Utility Programs

Other Expenses

- Reserve Savings
- Access/Trail Construction
- Easements/Acquisitions
- Equipment replacement costs
- Shared City Services



Storm Water Utility Path Forward

- Does Norman need a SWU?
- Is \$6.00 per ERU fair?
- Will a SWU address the needs of the community?
- Exemptions/Incentives/Credits?



QUESTIONS AND COMMENTS

